

**ABSTRACT**

**WAVEGUIDE INTERFACE**

A method of coupling together first and second waveguide connectors. The method including the steps of a) moving the connectors together to a first axial position in which part of the first connector engages a first axial stop on the second connector; b) causing relative movement between the first connector and the first axial stop; and c) moving the interface assemblies together axially after step b) to a second axial position in which part of the first connector engages a second axial stop on the second connector. Each waveguide connector includes a waveguide aperture; and one or more screw assemblies including a screw and captive nut. The waveguide connectors include a plug and socket connection with an elliptical profile. One of the connectors has a curved slot with two or more counterbores formed around the slot, and a securing member received in a first one of the counterbores. The polarization direction of the connector is changed by a) removing the securing member from the first one of the counterbores; b) rotating the waveguide interface until the securing member is aligned with a second end one of the counterbores; and c) inserting the securing member into the second one of the counterbores.